

Edilteco brings sustainable concrete in Italy and in Europe thanks to the collaboration with CarbonCure Technologies

San Felice sul Panaro (MO) — Edilteco (www.ediltecogreen.it) becomes the exclusive Distributor of [CarbonCure Technologies](#), a Canadian company that deals with the removal of carbon dioxide, and introduces this innovative technology in Europe.

“Our team is glad to introduce CarbonCure to our customers. Thanks to CarbonCure, Edilteco offers innovative solutions aimed at reducing the carbon footprint in the concrete industry” Paolo Stabellini, Edilteco’s CEO recalls.



CarbonCure technology allows concrete manufacturers to add carbon dioxide (CO₂), coming from industrial emissions, in the mixing with fresh concrete.

Once injected, the CO₂ undergoes a mineralization process and becomes permanently embedded, improving the concrete compressive strength.

For concrete manufacturers, this allows to safely reduce the cement content in their formula. In this way, architects, engineers, builders and contractors obtain the same reliable and high performing quality of concrete, but with a reduced carbon footprint.

“Italy represents a key market for the expansion of CarbonCure in Europe. This collaboration with Edilteco allows to accelerate our development, that aim at reaching our mission: reducing the carbon dioxide emissions from construction industry, of 500 millions of tons per year, within 2030” recalls Chad Mahoney, Territory Manager of CarbonCure Technologies.



CarbonCure technology **removes from the environment an average of 12 kg of carbon dioxide per m³ of concrete.**

“Edilteco has always taken care of energy saving and sustainability. This is our mission since the company foundation. The new Green range, which includes products containing up to 90% of regenerated EPS, is a further step in this direction. Today, together with CarbonCure, we have the possibility to offer something more to the concrete batching plants, that work with us from many years: same quality as always, but with a lower carbon footprint”, Emanuele Stabellini, Ediltecos’ Marketing Manager writes.

How does it work?

The implementation provides the use of two “box”. The first one, called “unit control”, accurately calculates the quantity of CO₂ to be injected in the concrete formula. This box is connected to the concrete batching plant software (it is compatible with all software) and to CarbonCure, which receive in real time all the collected data concerning the consumption of the CO₂ injected into the concrete.

The other box, called “valve block” is installed on the CO₂ tank and manages the doses addition. The container, at 20 bar pressure, brings the liquid CO₂ into the concrete to be mixed. Thanks to this pressure, the CO₂ reaches the mixer and immediately becomes CaCO₃ when comes into contact with the mixing.

Each concrete batching plant is free to choose its own CO₂ supplier. Edilteco installs the boxes, which are then remotely programmed. **A team of technicians has been trained for the installation, maintenance and post-sale service.**

CarbonCure has a technical approval, issued by DIBT (German Institution for the building technology). In compliance with the dosage, thanks to the additions of CO₂ is possible to **reduce the quantity of cement from 4 to 6%, without compromising the technical and mechanical characteristics.**

If we consider a cement saving of 6%, corresponding to approx. 15 kg/m³, and a medium concrete plant, that consumes 40.000 m³ of concrete per year, **the expected annual saving is 60 tons.**

Who is CarbonCure Technologies?

CarbonCure Technologies (www.carboncure.com) is a fast-growing company, which has attracted several investors, such as: Breakthrough Energy Ventures (investment fund of Gates family), Amazon, BDC Capital, Pangaea, Microsoft, 2150, Carbon Direct, GreenSoil Investments, Taronga Group and Mitsubishi Corporation. It designed a system for the



concrete industry for removing CO₂ from the environment and won the NRG COSIA Carbon XPRIZE award.

CarbonCure developed patented technologies allowing concrete manufacturers to use recovered carbon dioxide for the realization of low environmental impact concrete. Hundreds of batching plants all around the world chose CarbonCure, and now together with Edilteco, this project has been introduced in the Italian and European market, with the aim to definitely reduce the CO₂ emissions.

